| L Number | Hits | Search Text | DB | Time stamp |
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| – | 1552 | 709/223.ccls. and @ay<=2000 | USPAT; US-PGPUB; EPO | 2004/08/26 15:17 |
| – | 143 | 709/223.ccls. and @ad<20000518 and stream$ and query | USPAT; US-PGPUB; EPO | 2004/09/02 08:56 |
| – | 821 | 709/225.ccls. and @ay<=2000 | USPAT; US-PGPUB; EPO | 2004/08/26 08:59 |
| – | 46 | 709/223.ccls. and @ad<20000518 and stream$ and DNS | USPAT; US-PGPUB; EPO | 2004/08/26 10:20 |
| – | 252 | 709/223.ccls. and @ad<20000518 and stream$ and client | USPAT; US-PGPUB; EPO | 2004/08/26 10:26 |
| – | 2 | 709/223.ccls. and @ad<20000518 and stream$ and CDN | USPAT; US-PGPUB; EPO | 2004/08/26 10:26 |
| – | 351 | 709/235.ccls. and @ay<=2000 | USPAT; US-PGPUB; EPO | 2004/08/26 15:41 |
| – | 50 | 709/235.ccls. and @ay<=2000 and $balance$ | USPAT; US-PGPUB; EPO | 2004/08/26 15:41 |
| – | 1168 | 709/$$$.ccls. and @ad<20000518 and $balance$ and name$ | USPAT; US-PGPUB; EPO | 2004/09/02 10:19 |
| – | 146 | 709/$$$.ccls. and @ad<20000518 and $balance$ and name$ and ($tier) | USPAT; US-PGPUB; EPO | 2004/09/02 09:12 |
| – | 43 | 709/$$$.ccls. and @ad<20000518 and (load adj $balance$) and name$ and ($tier) | USPAT; US-PGPUB; EPO | 2004/09/02 09:22 |
| – | 26 | 709/$$$.ccls. and @ad<20000518 and (load adj $balance$) and name$ and multi-tier | USPAT; US-PGPUB; EPO | 2004/09/02 09:30 |
| – | 4 | 709/$$$.ccls. and @ad<20000518 and (load adj $balance$) and name$ and "master server" | USPAT; US-PGPUB; EPO | 2004/09/02 10:16 |
| – | 5 | 709/$$$.ccls. and @ad<20000518 and (load adj $balance$) and "master server" | USPAT; US-PGPUB; EPO | 2004/09/02 10:18 |
| – | 16 | 709/$$$.ccls. and @ad<20000518 and $media and query and nameserver | USPAT; US-PGPUB; EPO | 2004/09/02 10:40 |
| – | 118 | 709/$$$.ccls. and @ad<20000518 and stream$ adj media | USPAT; US-PGPUB; EPO | 2004/09/02 12:32 |
| – | 69 | 709/$$$.ccls. and @ad<20000518 and layered and DNS | USPAT; US-PGPUB; EPO | 2004/09/02 12:33 |

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**1**  Content management: MediSyn: a synthetic streaming media service workload generator  ▰
    Wenting Tang, Yun Fu, Ludmila Cherkasova, Amin Vahdat
    June 2003  **Proceedings of the 13th international workshop on Network and operating
               systems support for digital audio and video**
    Full text available: 🔳 pdf(383.54 KB)     Additional Information: full citation, abstract, references, citings, index terms

    Currently, Internet hosting centers and content distribution networks leverage statistical
    multiplexing to meet the performance requirements of a number of competing hosted network
    services. Developing efficient resource allocation mechanisms for such services requires an
    understanding of both the short-term and long-term behavior of client access patterns to these
    competing services. At the same time, streaming media services are becoming increasingly
    popular, presenting new challenges for desi ...

    **Keywords**: streaming media, workload analysis, workload generator

**2**  Scalable on-demand media streaming with packet loss recovery  ▰
    Anirban Mahanti, Derek L. Eager, Mary K. Vernon, David J. Sundaram-Stukel
    April 2003  **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 2
    Full text available: 🔳 pdf(680.99 KB)     Additional Information: full citation, abstract, references, citings, index terms

    Previous scalable on-demand streaming protocols do not allow clients to recover from packet loss.
    This paper develops new protocols that: 1) have a tunably short latency for the client to begin
    playing the media; 2) allow heterogeneous clients to recover lost packets without jitter as long as
    each client's *cumulative* loss rate is within a tunable threshold; and 3) assume a tunable upper
    bound on the transmission rate to each client that can be as small as a fraction (e.g., 25%)
    greater th ...

    **Keywords**: multicast, packet loss recovery, performance evaluation, periodic broadcast, scalable
    protocols, streaming media, video-on-demand

**3**  Session 5: P2P and streaming: A hierarchical characterization of a live streaming media  ▰
    workload
    Eveline Veloso, Virgílio Almeida, Wagner Meira, Azer Bestavros, Shudong Jin
    November 2002  **Proceedings of the second ACM SIGCOMM Workshop on Internet
                   measurment**
    Full text available: 🔳 pdf(1.33 MB)     Additional Information: full citation, abstract, references, index terms

    We present what we believe to be the first thorough characterization of *live* streaming media
    content delivered over the Internet. Our characterization of over 3.5 million requests spanning a
    28-day period is done at three increasingly granular levels, corresponding to clients, sessions,
    and transfers. Our findings support two important conclusions. First, we show that the nature of
    interactions between users and objects is fundamentally different for live versus stored objects.
    Access to ...

**4**  Structuring internet media streams with cueing protocols  ▰
    Jack Brassil, Henning Schulzrinne
    August 2002  **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4
    Full text available: 🔳 pdf(282.39 KB)     Additional Information: full citation, abstract, references, citings, index terms

    We propose a new, media-independent protocol for including program timing, structure, and
    identity information in Internet media streams. The protocol uses signaling messages called *cues*
    to indicate events whose timing is significant to receivers, such as the start or stop time of a
    media program. We describe the implementation and operation of a prototype Internet radio